## **ABSTRACT**

A new data processing and display method for use in interactive manufacturing process management is achieved. A first variable value, such as WIP, for a manufacturing stage is uploaded  $\backslash$  from a database. The first variable value is subtracted from a first target value to obtain a first wariable variance. A first variable variance bar is displayed above /a stage axis on a graphical display device. The first variabl $oldsymbol{\delta}$  variance bar is non-filled if the first variable variance  $i \ \ \,$  positive and is filled if the first variable variance is \negative. A second variable value, such as production moves, i $\mbeca{1}{3}$  uploaded for the manufacturing stage from the database. The s cond variable value is subtracted from a second target value to obtain a second variable variance. A second variable \( \) value bar is displayed below the stage axis on the graphical  $d_{f i}$ splay device. The second variable value bar is non-fill d. A second variable variance bar is displayed below  $ar{f t}$ the second variable value bar on the graphical display devite if the second variable variance is positive. The second  $\sqrt[4]{}$ ariable variance bar is filled. A new data processing and display apparatus for use in interactive manufacturing process hanagement is also achieved.